	Application No.	Applicant(s)
	Application 140.	Applicant(s)
Nation of Allowability	10/621,541	CHOI ET AL.
Notice of Allowability	Examiner	Art Unit
	(Nancy) Thanh-Nhan P Nguyen	2871
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. \square This communication is responsive to $\underline{7/17/2003}$.		
2. The allowed claim(s) is/are <u>1-13</u> .		
3. The drawings filed on <u>17 July 2003</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unanal (a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have linternational Bureau (PCT Rule 17.2(a)). 	be been received. been received in Application No	
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Informal P	atent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	·······································
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0		Paper No./Mail Date 7. Examiner's Amendment/Comment
Paper No./Mail Date	<u>_</u>	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	⊠ Examiner's Statement □ Other	ent of Reasons for Allowance
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DETAILED ACTION

1. Claims 1-13 are presented for examination.

2. Claims 1-13 are allowed.

3. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

a. Wu et al U.S. Patent No. 5,223,959 discloses a liquid crystal

display (LCD) device that improves color oriented LCD in which the liquid crystal

material and the color dye material are intimately commingled within an

enclosure of polymer material and/or encapsulated within the structure of

microdroplets.

b. Fergason U.S. Patent No. 4,662,720 discloses the use of liquid

crystal material encapsulated in a containment medium to produce a controlled

colored or multicolored output. A non-pleohroic dye is imbibed in the containment

medium itself. Different color dyes may be placed at different areas of the

encapsulated liquid crystal structure to achieve different output.

c. Okumura JP 03186815 A discloses how to obtain the color high-

polymer liquid crystal composite film (PDLC) of a high contrast by mixing

dichromatic dyestuffs with a liquid crystal and placing a light absorber behind the

PDLC.

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4. The following is an examiner's statement of reasons for allowance:

Applicant's claimed invention distinguishes over the prior art for the following reasons. The claims are allowable over the prior art of record because none of the references, either alone or in combination, discloses or renders obvious a color polymer dispersed liquid crystal display comprising color liquid crystal-polymer films formed by foaming polymer films mixed respectively with red, green and blue pigments to form porous films of red, green and blue colors, then dropping and injecting a liquid crystal into droplets of the porous film under vacuum condition.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

(Nancy) Thanh-Nhan P Nguyen Examiner Art Unit 2871

> KENNETH PARKER PRIMARY EXAMINER